

# **Earlex<sup>®</sup>** **SPRAYSTATION GEMINI<sup>®</sup>**



## **OPERATING INSTRUCTION MANUAL**

BEFORE USE – PLEASE READ THE MAIN MANUAL AND SAFETY INSTRUCTIONS.  
Please retain for future reference.

## **MANUAL DE INSTRUCCIONES**

ANTES DE UTILIZARLA - POR FAVOR LEA EL MANUAL PRINCIPAL Y LAS  
INSTRUCCIONES DE SEGURIDAD.  
Guárdelo para futuras consultas.

## **MODE D'EMPLOI**

AVANT UTILISATION, MERCI DE LIRE ATTENTIVEMENT LE MODE D'EMPLOI ET LES  
CONSIGNES DE SÉCURITÉ.  
Veuillez conserver cette notice pour toute consultation future.

**DO NOT RETURN TO STORE IF THIS PRODUCT HAS BEEN USED**

If you have any questions relating to this product please contact Earlex customer service

**TOLL FREE: 888-783-2612**

**NO DEVUELVA EL PRODUCTO AL ESTABLECIMIENTO SI HA SIDO USADO.**

En caso de dudas y preguntas relacionado con el producto contacte con el servicio Earlex llamando al

**TELÉFONO GRATUITO 888-783-2612**

**NE PAS RETOURNEZ LE PRODUIT AU MAGASIN SI CE DERNIER A  
DÉJÀ ÉTÉ UTILISÉ.**

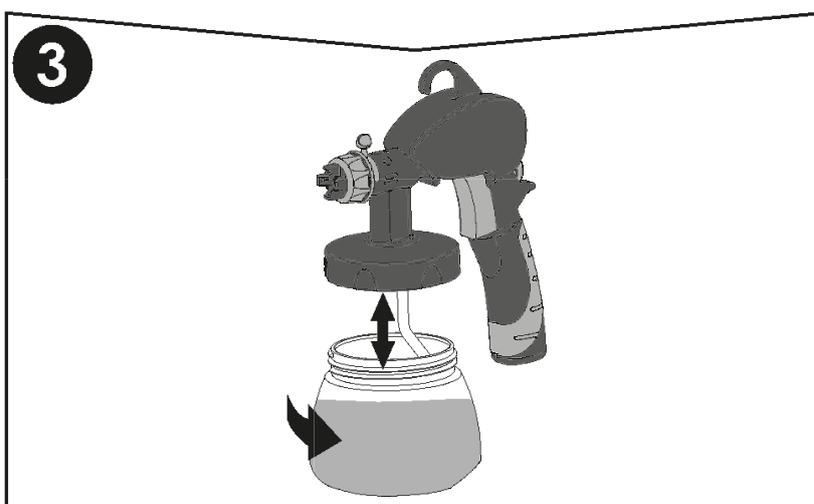
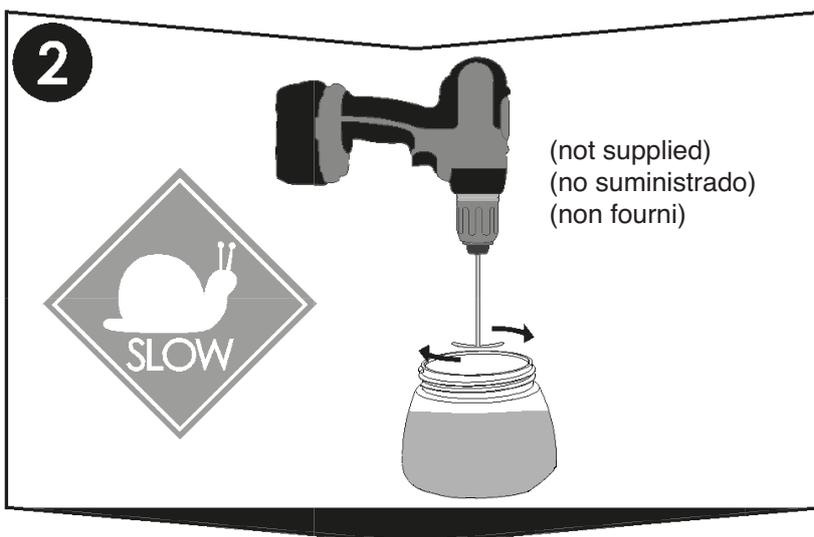
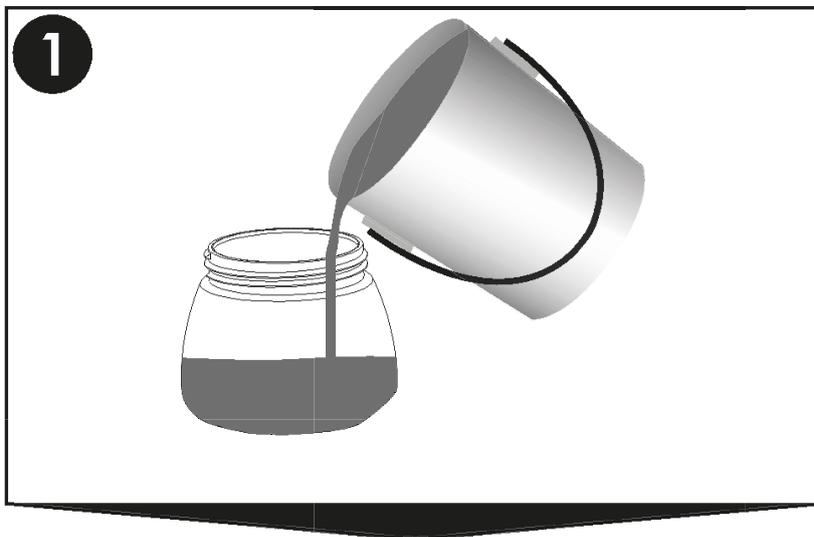
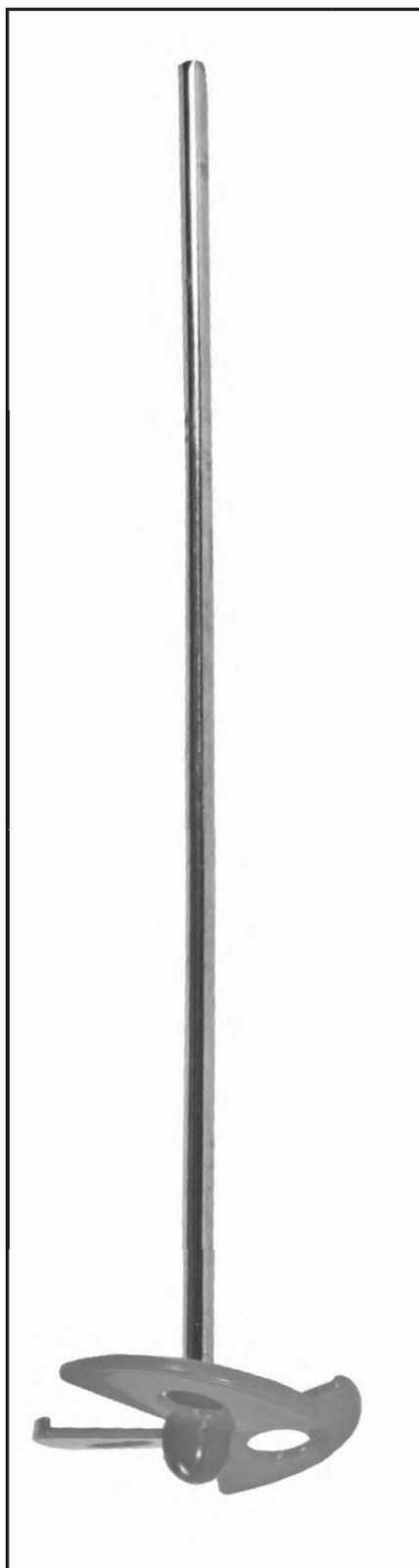
Si vous avez des questions concernant ce produit merci de contactez le service client d'Earlex au

**888-783-2612**

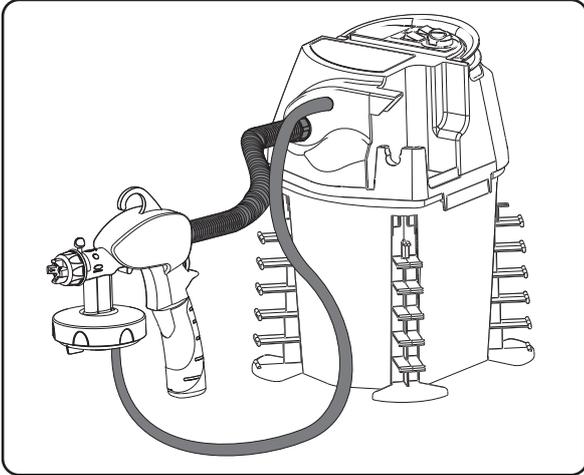
**US** **IMPORTANT INFORMATION**  
Certain coatings may require dilution.

**ES** **INFORMACIÓN IMPORTANTE**  
Ciertas capas requieren disolución.

**FR** **IMPORTANT**  
Certains revêtements doivent être dilués.

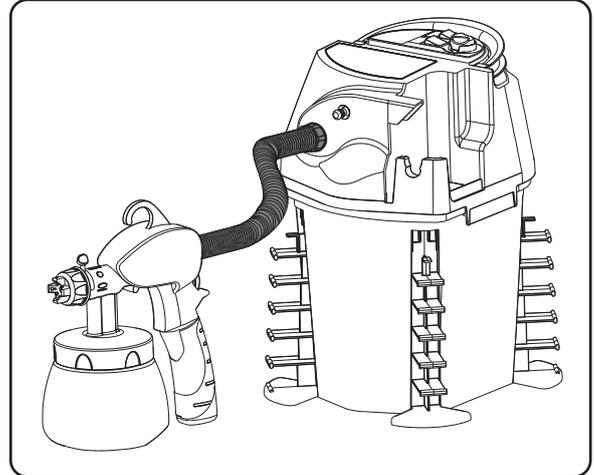


# A complete HVLP (High Volume Low Pressure) & Pump Technology - painting & finishing system



## Large Projects:

Direct from the paint can or Gemini Bucket.  
**Water-based coatings only may be used with this set-up.**



## Small Projects:

From the Paint Pot.  
**Water & solvent-based coatings may be used with this set-up.**



Thank you for purchasing the SprayStation Gemini<sup>®</sup>. We hope you enjoy the benefits this versatile paint spraying system provides. Due to the benefits of low overspray, ease of spraying a wide variety of materials it can be used on multiple interior or exterior projects, arts and craft and hobby projects and provide a great quality finish for even the most inexperienced painter.

Your SprayStation Gemini<sup>®</sup> has been tested prior to leaving the factory. For the first use we recommend you place a quart of warm water in the SprayStation Gemini<sup>®</sup> bucket turn on the pump and then the turbine and spray onto some scrap cardboard - this will clear any dust that may have entered the paint tubes and help the paint flow through the SprayStation Gemini<sup>®</sup> head. If the unit does not function see our troubleshooting section, call our customer service number (593) 22530912 ext.12. Alternatively visit our website at [www.earlex.com](http://www.earlex.com) or [www.pintulac.com.ec](http://www.pintulac.com.ec). **DO NOT PUT PAINT INTO THE UNIT** if the unit does not function in the event you have to return the product due to a malfunction then the store will not take the SprayStation Gemini<sup>®</sup> back. In the event there is a malfunction and paint has been used please call our helpline and we will rectify the problem for you.

**In addition we have provided a HOW TO DVD with this product which covers many of the subjects contained in this manual and we highly recommend you watch this before setting up your SprayStation Gemini<sup>®</sup> and spraying.**

Fig.1

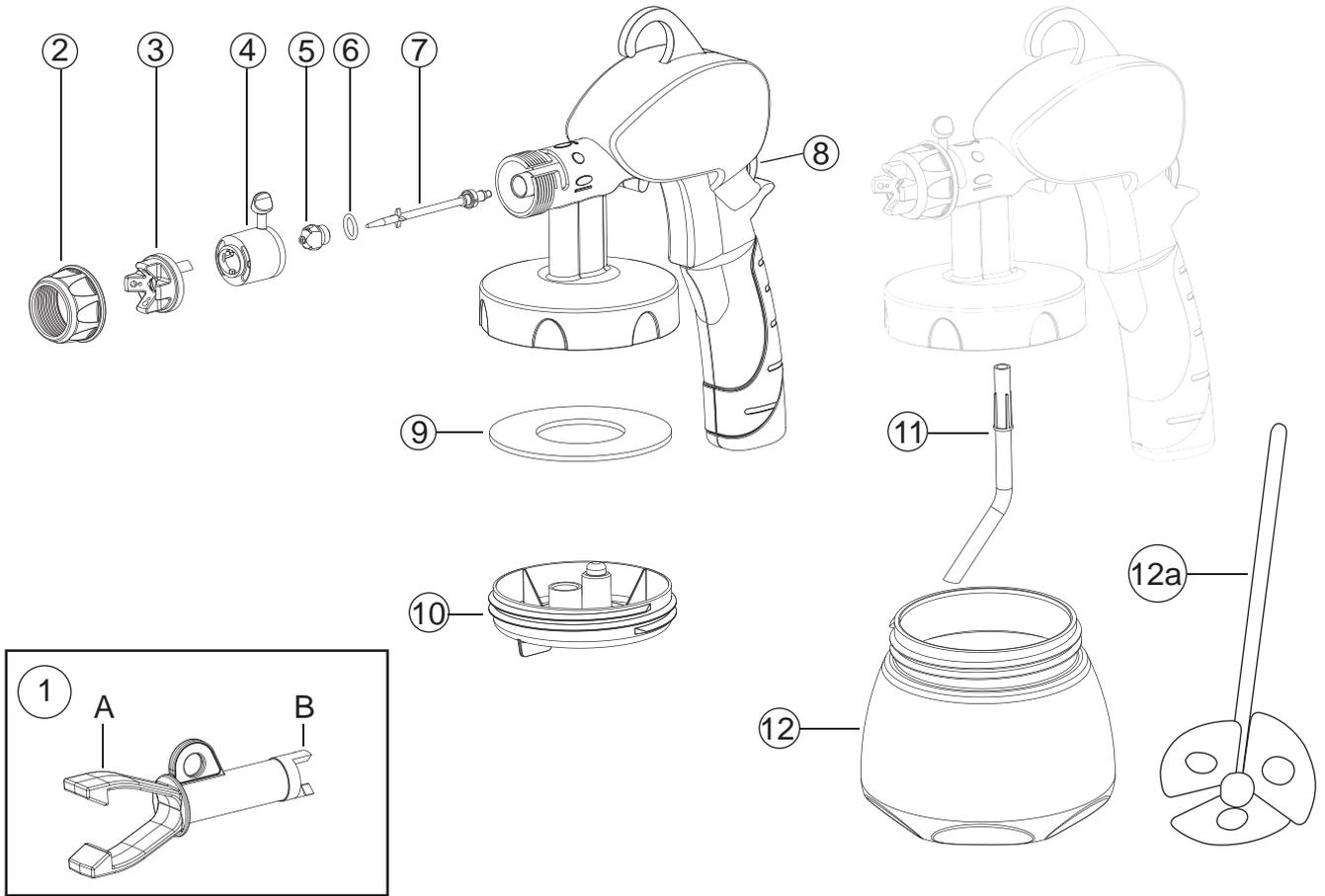
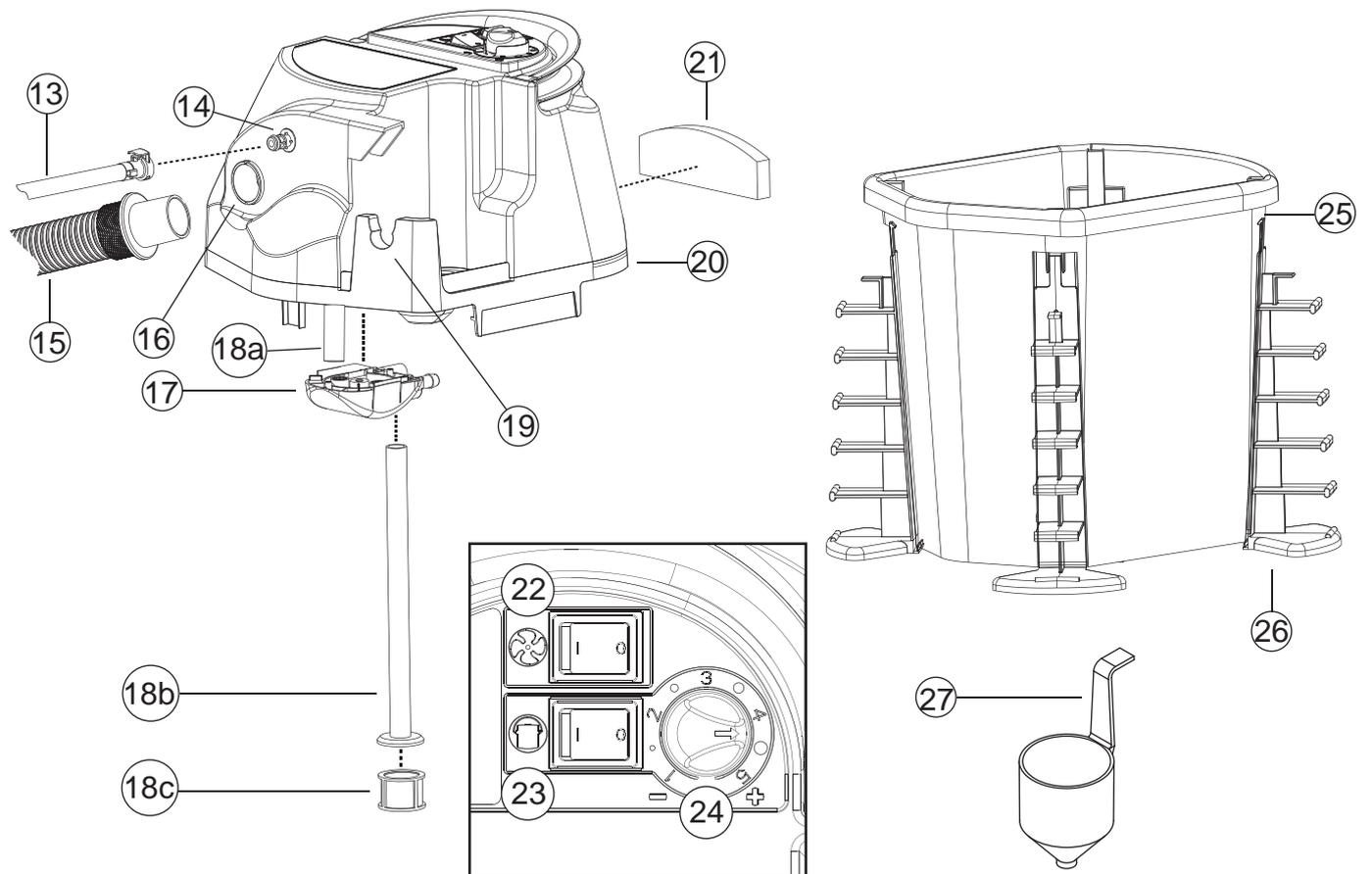
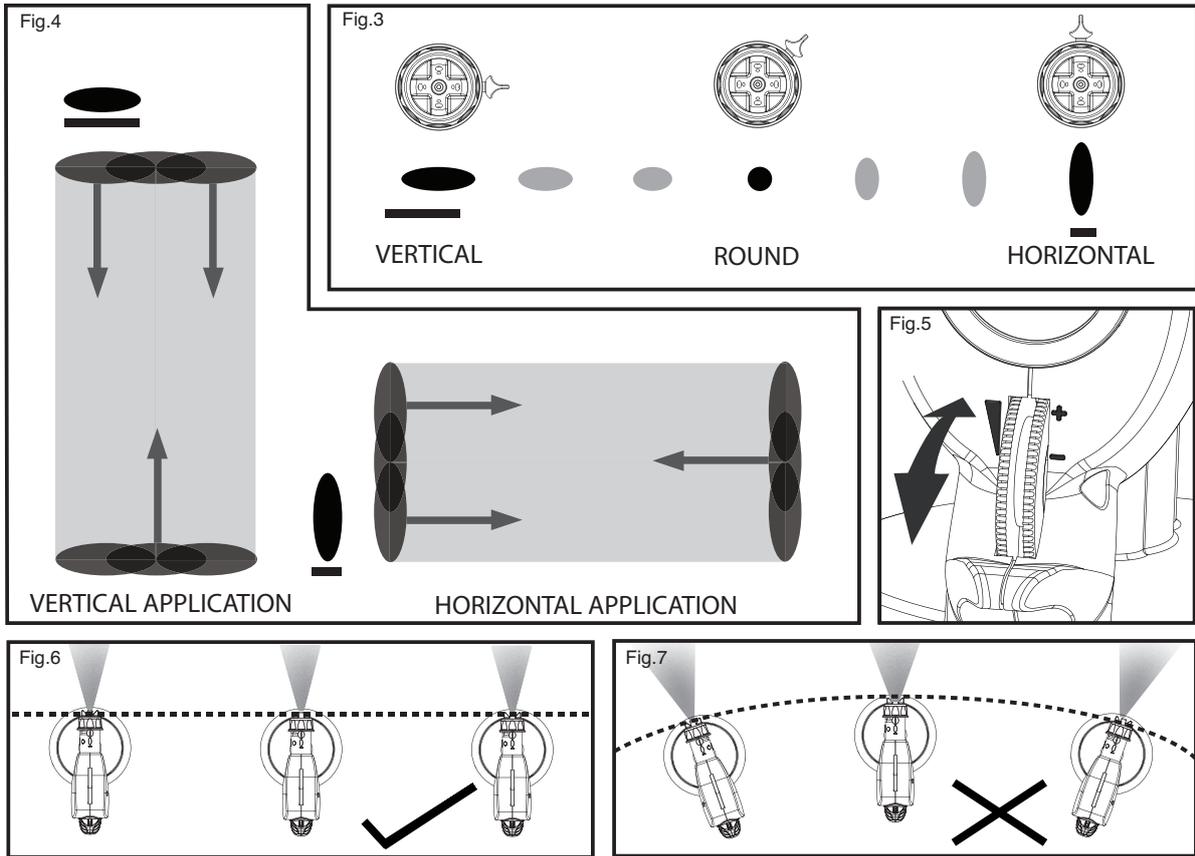


Fig.2



# Diagrams



## Parts List Fig.1 and Fig.2

No.	Description	Part No.	No.	Description	Part No.
1.	Needle and Fluid Tip Tool	V0018	15.	Air Hose	L0896
2.	Air Cap Ring	V0001	16.	Air Outlet	n/a
3.	Air Cap - Gemini	FF0006	17.	Pump Head	HVACGEM7
4.	Spray Direction Plate - Gemini	FF0008	18a.	Pressure Relief Tube	V0272
5.	Fluid Tip - Gemini	FF0005	18b. & 18c.	Pick-Up Tube & Filter Cage	HVACGEM8
6.	Fluid Tip O-ring	V0005	19.	Docking Station	n/a
7.	Needle	V0006	20.	Head Unit	n/a
8.	Paint Flow Adjuster	n/a	21.	Air Filter	HVACGEM12
9.	Paint Container Gasket	L0682	22.	Turbine Switch	n/a
10.	Connector Plate	HVACGEM5	23.	Pump Switch	n/a
11.	Rigid Pick-Up Tube	V0012	24.	Paint Speed Dial	n/a
12.	Paint Pot	V0014	25.	Gemini Bucket	FF0001
12a.	Paint Stirrer	HVACGEM3	26.	Hose Clip Feet	FF0004
13.	Paint Tube	HVACGEM6	27.	Viscosity Cup	SG243
14.	Paint Outlet	n/a			

## What's in the box (checklist)



	1. How to DVD	FF0108		7. 13' Air Hose	L0896
	2. Instruction Manual	FF0105		8. Hose Clip x5	HVACGEM8
	3. Gemini - Turbine & Pump	n/a		9. Faucet/ Outside Faucet Connector	HVACGEM9
	4. Spray Gun	FF0039		10. Viscosity Cup	SG243
	5. Connecting Plate	HVACGEM5		11. Paint Stirrer	HVACGEM3
	6. 13' Paint Tube	HVACGEM6		12. Bottle Brush	HVACGEM2--

# SAFETY INSTRUCTIONS

## WARNING! FIRE AND EXPLOSION HAZARD

### DO NOT USE SOLVENTS IN THE GEMINI BUCKET OR WHEN SPRAYING DIRECT FROM THE CAN

- **CAUTION! TO REDUCE THE RISK OF ELECTRIC SHOCK OR INJURY, DO NOT EXPOSE TO RAIN; STORE INDOORS.**
- The materials used with this spray gun (paint, thinners, etc) may contain hazardous, harmful, explosive or corrosive materials. **ALWAYS COMPLY WITH THE SAFETY INSTRUCTIONS ISSUED WITH THIS PRODUCT AND THE MATERIAL BEING USED.**
- The spray gun must be used only with paints and solvents that have a suitable flash point for spraying. If in doubt, consult the paint or solvent manufacturer's data.
- Always ensure there is adequate ventilation when spraying.
- **NEVER** spray near an open flame, including an appliance pilot flame.
- **NEVER** smoke whilst spraying.
- Always disconnect the unit from the electrical outlet when cleaning the spray unit.
- Always ensure the spray area is safe and free from all debris that may present a fire or fall hazard.
- **NEVER**, under any circumstances, point the spray gun at another person or animal. In the event of an injury, seek immediate medical attention.
- **NEVER** allow unauthorized users to operate or play with the Spray equipment.
- Always read the paint manufacturer's thinning instructions before use.
- Always wear the correct protective face mask when spraying. We also recommend wearing ear protection, gloves, goggles and overalls.
- You must clean the spray gun thoroughly after each use.
- Use only genuine manufacturer replacement parts.
- Use the spray equipment only as detailed in these instructions.
- Do not use the air hose or power cord to move the SprayStation Gemini®.
- If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.
- Check the hoses, hose connectors and power cord frequently. Any worn or damaged parts should be replaced immediately.
- This SprayStation Gemini® is recommended for household use only.
- This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved. Children shall not play with the appliance. Cleaning and user maintenance shall not be made by children without supervision.
- **NEVER DISPOSE OF PAINTS OR SOLVENTS DOWN THE DRAIN. ALWAYS USE YOUR LOCAL WASTE COLLECTION SITE.**

## Electrical Information

### Extension Cords

Your SprayStation Gemini® is supplied with a power cord that is 6 feet long. Make sure your power cord is in good condition. When using an extension cord, be sure to use one heavy enough to carry the current your product will utilize. For lengths up to 50 feet, 18 AWG extension cords or larger, e.g. 16 AWG, 14 AWG should be used.

## Double-Insulated Appliance

This SprayStation Gemini® is a double-insulated appliance and, as such, does not require three-way grounding. This product is equipped with a polarized alternating current line plug (a plug having one blade wider than the other) and does not require a grounding adapter. This plug will fit into a power socket-outlet only one way. If you are unable to insert the plug fully into the socket-outlet, try reversing the plug. If the plug should still fail to fit, contact a qualified electrician for further details. Do not defeat the safety purpose of the polarized plug.

## Selecting Paint

Your SprayStation Gemini® can be used with a wide variety of paints, stains and coatings. See below what paints you can or cannot spray.

However, some materials cannot be sprayed so please check the recommendation of the paint manufacturer before buying the paint. If a material refers to brush application only then it usually cannot be sprayed.

**Spraying directly from the paint can or Gemini Bucket;**



Suitable	Not Suitable
Water-soluble interior and exterior paints, water-based wood treatments and water-based varnishes.	Solvent-soluble coatings, 2-pack paints, highly abrasive and textured coatings as well as coatings <b>WITH A FLASH POINT BELOW 140°F (60°C)</b> .

**Spraying from the Paint Pot;**



Suitable	Not Suitable
Water-soluble and solvent interior and exterior paints, wood treatments, varnishes, lacquers, urethanes, enamels, shellacs, automotive paints & oil-based materials	2-pack paints, highly abrasive and textured coatings as well as coatings <b>WITH A FLASH POINT BELOW 140°F (60°C)</b> .

## Surface and Job Preparation

With any paint project you should always ensure that you have prepared your surface to get the best finish. You must ensure all surfaces are free from dust, dirt, rust and grease. Lightly pressure wash decks or exterior surfaces and ensure they are dry before painting.

With pre-coated or pre-painted surfaces lightly rub down with sandpaper to ensure a good key for the paint. With bare wood surfaces wipe with a damp rag to ensure the surface is free of dust.

It is recommended masking off edges and other areas and using a drop cloth to ensure you protect those areas you wish to remain untouched.

## Viscosity

Viscosity is a technical term used to indicate a liquids thickness. Having the correct viscosity of paint is important to ensure the paint atomizes correctly and sprays well giving you a good quality finish. If your material is thin like water then the viscosity is said to be low, while if thick like latex interior paint then viscosity is said to be high. Viscosity is measured in seconds.

When spraying direct from the can you may need to dilute up to 10% if your coating is very thick, e.g. exterior latex.

When spraying latex from the Paint Pot (12) all latex based coatings will need at least 10% dilution. Other coatings such as lacquers, urethanes generally don't but you should always check your paint viscosity with the Viscosity Cup (27) before you start to add any thinning material.

You should always test the viscosity (or thickness) of paint before spraying to see if thinning is required. The correct viscosity is important to ensure the paint atomizes correctly and sprays evenly.

Your SprayStation Gemini® is supplied with a Viscosity Cup (27) to help you determine the thickness of the paint. To test a liquids viscosity, dip the viscosity cup into the material and fill up to the top, lift free and time how long it takes the paint to empty the viscosity cup. Stop when the continuous flow ends from the bottom of the cup. The time determines the material viscosity and the need for the paint to be thinned before being sprayed.

**When using the Paint Pot (12), the SprayStation Gemini® has a viscosity rating of 180 seconds.** If the paint has emptied the viscosity cup in less than **180 seconds** then you will not need to thin your paint or material. If it is above this then thinning will be required (see thinning section).

## Thinning

### Small Jobs - Paint Pot

Paint is "thinned" by adding the substance upon which the paint is based. If it is water-based paint then water is added; if oil-based then mineral spirit or manufacturer's recommended thinners is added. If the paint requires thinning, start with approximately 10% dilution of the paint by adding to the Paint Pot (12) approx 50ml. Add the thinners to the paint and stir with the Paint Stirrer (12a) provided. Repeat this step by adding 5% (5% will be equal to half a viscosity cup) with the required thinners until the desired viscosity is achieved.

### Larger Jobs - Paint Can or Gemini Bucket

If mixing larger batches of paint, for instance 5L, dilute the paint by 5% (Approx. 250ml of water). If further thinning is required repeat this process in increments of 5%. We also recommend you follow the paint/coating manufacturer's guide for thinning in conjunction with a spray gun. If in doubt please contact the manufacturers of the paint.

**Tip:** When spraying direct from the can, although you do not necessarily need to thin interior emulsion paints, diluting paint will improve the coverage and surface finish.

**Always stir your paint with the Paint Stirrer (12a) (#11, box checklist) for approx. 2min.**



# Getting to know your Spray Gun

We recommend you spend some time practicing on cardboard, newspaper or scrap wood to familiarise yourself with how the spray gun works and the flow rate (i.e. how fast the material will spray) before starting any work regardless of experience level.

Start with the Paint Flow Adjuster (8) at its minimum setting so the spray gun trigger cannot be pulled. Do not forget that the paint flow adjuster controls the quantity of paint sprayed. The spray gun will allow you to have greater control when spraying (Fig.5).

The gun has 3 spray patterns which can be changed by the external Spray Direction Plate (4) from either a horizontal fan pattern, to a round detailed pattern or to a vertical fan pattern. When adjusting through patterns you will notice the oval fan pattern width reduce and increase as it moves from horizontal to vertical positions. This is useful when you have particular size items you need to spray. The maximum width you can spray is 8" down to 1" on the round pattern.

 **HORIZONTAL SPRAY PATTERN** – is ideal for vertical spraying up and down (Fig.3).  
1) To achieve a vertical application (Fig. 4) set Spray Direction Plate (4) (as shown) then pull the trigger and move your arm up and down (Fig.4).

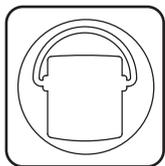
 **VERTICAL SPRAY PATTERN** – is ideal for horizontal spraying left to right (Fig.3).  
2) To achieve a horizontal application (Fig. 4) set Spray Direction Plate (4) (as shown) then pull the trigger and move your arm left to right (Fig.4).

 **ROUND SPRAY PATTERN** – is ideal for detailed areas or small objects (Fig.3).  
3) To achieve a round application set Spray Direction Plate (4) (as shown).

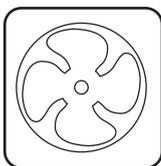
Spraying with your SprayStation Gemini® is very intuitive and through a little practice you will very quickly become a good sprayer. When practicing adjust the Paint Flow Adjuster (8) and spray patterns to see the effect this has (Fig.4).

**HINT:** HVLP technology produces warm air through the Air Cap (3) allowing the paint to dry quicker which can enhance the final effect and allow you to apply additional coats if necessary much sooner although you should follow the paint manufacturer's recommended drying/curing times where possible.

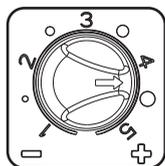
## Switch functionality



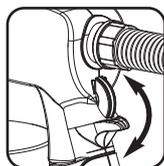
Pump



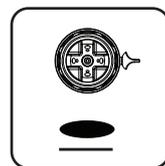
Turbine



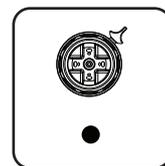
Paint speed dial



Paint flow adjuster



Horizontal pattern



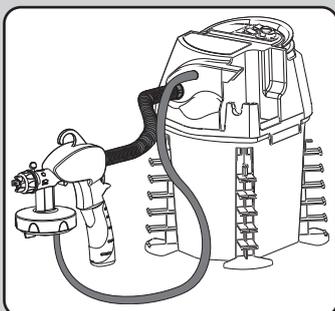
Round pattern



Vertical pattern

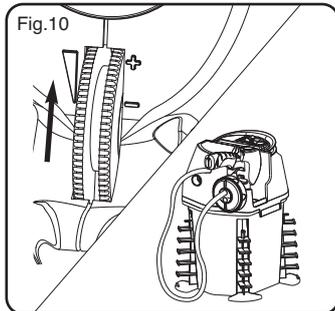
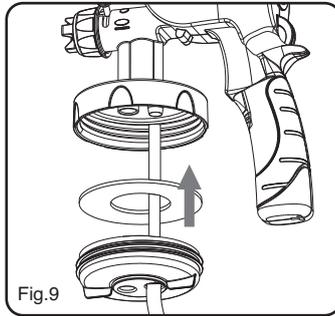
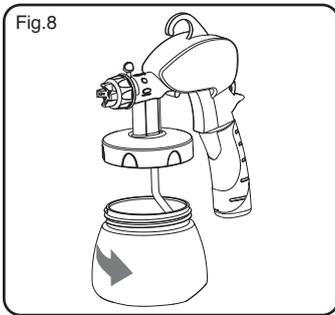
**IMPORTANT:** Correct cleaning of this sprayer is essential for successful operation on next use. Please refer to the How to DVD and the cleaning section of your operational manual to thoroughly clean your sprayer.

The SprayStation Gemini® can be set up for two different applications, spraying directly from the paint can or Gemini Bucket for large projects or from the Paint Pot for small projects.



### Large Projects

**Direct from the paint can (or Gemini Bucket)**  
(water-based coatings only)



# Product - Set Up & Assembly

**Additional items required before you start: • Drill • Cloth**



## Spraying direct from the paint can:

- 1) The head unit is secured with two container catches. Gently pull outwards on these to dislodge the catches, and remove the head unit.
- 2) Unscrew the Paint Pot (12) (Fig.8) and remove the Rigid Pick-Up Tube (11) from the gun (Fig.8) and then insert the bare end of the 13ft Paint Tube (13) through the Connector Plate (10) and fit over the inlet (this is the one with the smaller aperture on underside of the gun) (Fig.9).  
**Tip:** Tube can be softened by running under hot water.
- 3) Ensuring that it is correctly aligned, screw the Connector Plate (10) onto the gun - pushing as you twist.
- 4) Fit the the 13ft Paint Tube (13) to the Paint Outlet (14) (Fig.10) on the motor unit - using the quick connect fitting. Give a gentle tug on the paint tube to ensure that it is secure.
- 5) Set the Paint Flow Adjuster (8) on gun to maximum by scrolling up (Fig.10) and then firmly push/ clip the gun into the docking station on the motor unit until you hear a 'click' (the trigger should be depressed sitting in the Docking Station (19)).
- 6) DO NOT FIT the Air Hose (15) to motor outlet and gun at this stage yet.

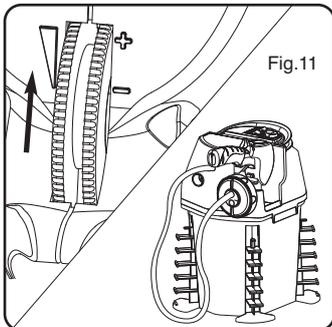
## Priming – Direct from the paint can (or Gemini Bucket)



**SOLVENT-BASED COATINGS CANNOT BE USED WHEN SPRAYING DIRECT FROM THE CAN.**

ALWAYS PRIME THE UNIT WITH WATER BEFORE STARTING ANY JOB. ENSURE YOUR PAINT IS AT ROOM TEMPERATURE. ALWAYS DILUTE USING WARM WATER.

- 1) If the spray gun is not in the docking station scroll the Paint Flow Adjuster (8) on the back of the gun to maximum – then place the gun in the Docking Station (19) (Fig.11).



- 2) Remove the head unit and place the Paint Pot (12) filled with water into the Gemini Bucket (25) and refit the head unit making sure the Pick-Up Tube & Filter Cage (18b & 18c) is fully immersed in the water (Fig.12).

- 3) Plug the unit in, set paint speed dial on the unit to setting 5 (Fig.12), and turn the pump on  (Fig.12).

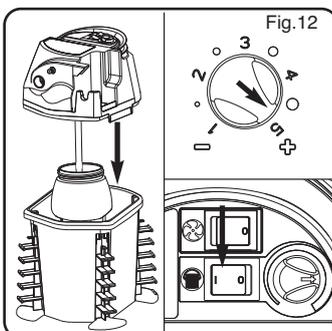
- 4) When water starts coming out the front of the gun (you will see this in the Docking Station (19) while it is on) - turn the pump off  remove the Paint Pot (12) and gun from the Docking Station (19) - switch the pump on  and expel the remaining water through the gun into the Paint Pot (12).

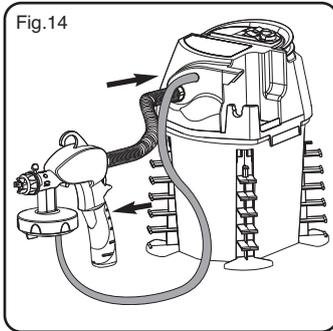
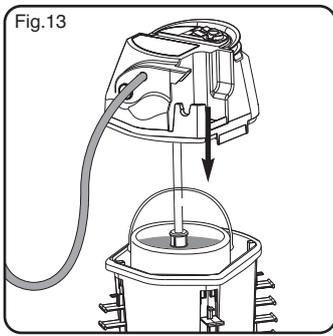
**Tip:** If the water does not reach the end of the gun, make sure the Paint Flow Adjuster (8) is scrolled up to maximum and the gun trigger is depressed fully in the Docking Station (19).

- 5) Remove the Paint Pot (12) from the Gemini Bucket (25) and replace it with the paint mixed and thinned (if necessary) making sure the Pick-Up Tube & Filter Cage (18b and 18c) drop into the paint (paint can either be poured directly into the bucket or preferably you can use the paint can that it comes in).

- 6) Ensure the paint can is placed under the gun – use the rings on the base of the Gemini Bucket (25) as a guide.

**NOTE:** Make sure the spray gun is firmly placed in the Docking Station (19) with the trigger depressed.





- 7) Turn pump on (Fig.12). 
- 8) When the paint starts to come through the tip of the gun your unit is primed (this should take up to 2min). Turn pump off. 
- 9) Uncoil the black Air Hose (15) from around the Gemini Bucket (25), and fit to the head unit and gun using a TWIST motion.
- 10) Join the Paint Tube (13) and black Air Hose (15) using the Hose Clips (#8, checklist) supplied. Do this at 3ft intervals, using a tweezer action on the clip, connect the paint tube first. A good tip is that the first clip should be placed 19 inches from the head of the unit. It is also easier to do this with the gun out of the docking station.

Your Gemini is now ready to spray!

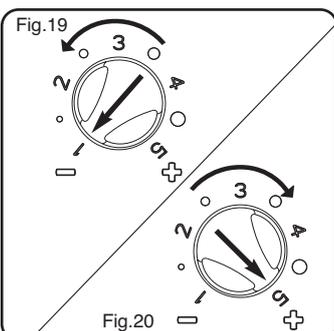
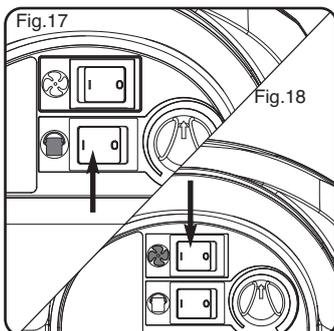
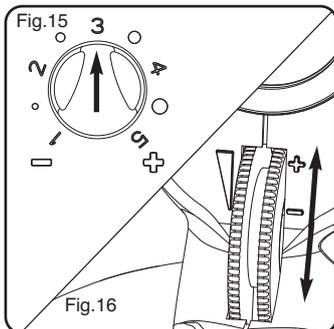
## Starting to Spray - Direct from the paint can (or Gemini Bucket)

(Water-based coatings only)



### Spraying Tips

- Before starting your project, practice spraying onto waste cardboard – this will ensure that you get some practice and allow you to set the SprayStation Gemini® to the right setting. The flow rate will vary dependant on what you are spraying.
- If your spray pattern (pass) is diminishing as you spray - then increase the paint speed dial on the unit (Fig.20) setting.
- Evenly control the speed of movement of the spray gun. A fast speed will give a light coat and a slow speed will give a heavy coat.
- Avoid stopping and starting when spraying a surface as this can lead to too much or not enough material on a surface.
- To ensure edges are covered, commence spraying just to the side or above/below the area being sprayed.
- Do not spray outside when humidity is above 60% or temperature is above 90°F (32°C) or below 45°F (7°C).
- To improve atomization/ quality of finish decrease the paint flow adjuster on the gun.



1. On the head unit set paint speed dial on the gun (Fig.15) to setting 3.
2. Remove the gun from the docking station and set Paint Flow Adjuster (8) on the spray gun to lowest setting.
3. Turn the Pump (Fig.17)  on and then the Turbine (Fig.18)  on.
4. Gradually scroll Paint Flow Adjuster (8) upwards (Fig.16) a little at a time until you are comfortable with the amount of paint spraying from the spray gun.
5. You can fine tune the spray output with the Paint Flow Adjuster (8) on the gun - ¼ to ¾ turn produces the best spray quality and improves atomization/ quality of finish (Fig.16).
6. If the spray is too heavy, turn the paint speed dial on the unit anticlockwise towards minimum on the head unit (Fig.19).
7. If the spray is too light, turn the paint speed dial on the unit clockwise towards maximum on the head unit (Fig.20).
8. You are now ready to start your project using standard HVLP spraying technique (see Technique section).

## Note:

To prevent clogging of the needle, fluid tip and air cap at the front of the gun use a clean cloth to wipe clean at regular intervals.

## Finishing Tips

**Orange Peel:** Reduce viscosity. Increase atomization with a smaller fluid tip. Spray area may be too cold.

**Sags or Runs:** Move spray gun faster. Spray lighter coat. Increase atomization.

**Wet and Milky:** Finish applied too heavy. This condition is prone to trap water within coats. Apply lighter coat.

**Blushing:** Seal coat applied over solvent-based stain that has not been completely dried. Sand smooth and re-coat.

**Rough Surface:** Seal coat not sanded enough. Sand smooth and re-coat.

**Fish Eyes:** Surface is contaminated. Clean surface, sand area and re-coat.

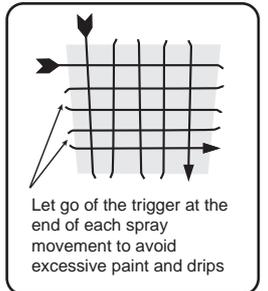
## Technique (recommend viewing of DVD)



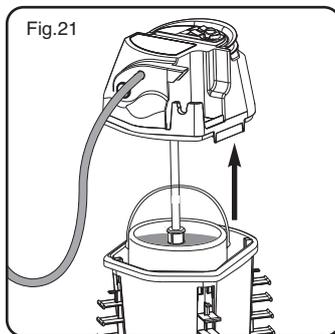
When spraying always keep your spray gun at the same distance from the surface, avoid moving your wrist as this will give you an uneven paint distribution. You should spray a maximum distance of 10"-12" from a surface, this will give you your maximum spray width (Fig.6).

**BE CAREFUL NOT TO APPLY TOO MUCH PAINT IN THE SAME AREA AS THIS WILL LEAD TO SAGS AND DRIPS – APPLYING LIGHT COATS IS ALWAYS BETTER UNTIL YOU GAIN CONFIDENCE AS YOU CAN ALWAYS GO BACK OVER WHAT YOU HAVE SPRAYED.**

The most commonly used technique for painting a large surface is the 'criss-cross' technique, i.e. you spray the paint in a horizontal strip and then cross over these strips by spraying the paint in vertical strips.

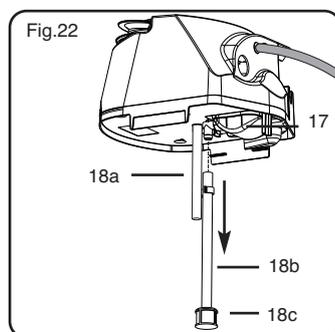


## Cleaning Instructions - Direct from the paint can (or Gemini Bucket)



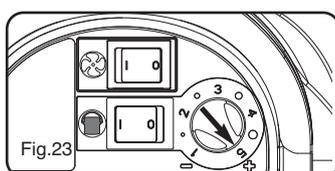
**IMPORTANT:** Correct cleaning of this sprayer is essential for successful operation on next use. Please refer to the How to DVD and the cleaning section of your operational manual to thoroughly clean your sprayer.

1. Separate the Air Hose (15) from both the head unit and the gun. Unclip the head unit from the Gemini Bucket (25) (Fig.21) and remove the paint Pick-Up Tube (18b) (Fig.22). Clean the Pick-Up Tube (18b) thoroughly using the Bottle Brush (#12, box checklist). Also remove Filter Cage (18c) and clean thoroughly. Reassemble and then reconnect to the head unit.

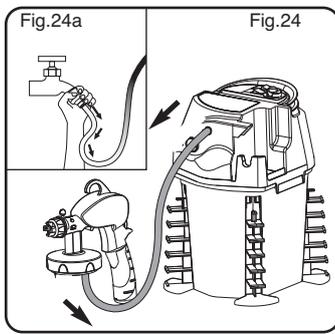


2. Set the head unit on top of a separate waste bucket filled with approximately 1 gallon of warm soapy water. Turn pump on and set paint speed dial to #5 (Fig.23). Pointing the gun into the Paint Pot (12) (or your can of paint), pull trigger and carefully expel remaining paint into Paint Pot. (12) Let go of the trigger as soon as water starts to come out of the gun. With the pump still on, you can now clean the Pressure Relief Tube (18a) (Fig.22) by turning the pump dial to #1, leave for a few seconds then back to #5, leave for a few seconds and then back to #1 again. Repeat this process for 30 seconds. Switch off the pump.

3. At this point, replace the water in the waste bucket with clean warm soapy water (approximately 1 gallon again). Now with the paint speed dial set to #5, switch on the pump, point the gun into the spare Paint Pot (12) and depress the trigger for about 10 seconds and then release for 10 seconds. Repeat this process until you have discharged about 1/2 gallon of water into the paint can. Switch off the pump.



4. Release the pressure in the Paint Tube (13) by pointing the gun into the Paint Pot (12) and pulling the trigger. Then disconnect the paint tube from the head unit and the gun (Fig.24). Clean the gun and paint tube at the tap. Use the Faucet/ Outside Faucet Connector (#9 box checklist) (Fig.24a) provided to clean the paint tube thoroughly. Take a Hose Clip (#8 box checklist),



to secure the Paint Tube (13) to the Tap/ Outside Connector (#9 box checklist). Ensure that you hold the connector onto the tap and gradually increase the water flow.

**Tip:** Squeeze and flex the Paint Tube (13) to remove all the paint from inside the tube.

5. Wipe any excess paint off the Gemini Bucket (25) and head unit with a warm damp cloth. This will ensure your SprayStation Gemini® is ready for your next painting project.

## Cleaning Instructions - Spray Gun (Fig.25)

- Unscrew Air Cap Ring (2).
- Remove Air Cap (3).
- Remove Spray Direction Plate (4).
- Using Needle and Fluid Tip tool - pincer end A (1) remove Fluid Tip (5).
- Insert Needle and Fluid Tip end B (1) into the inner tube and unscrew Needle (7) anticlockwise, then pull to release the needle.
- Place all of these items into a container and clean, using a brush and the respective thinners.
- Clean the inside of the body of the spray gun.
- Thoroughly dry all parts before reassembling.
- Reassemble parts in reverse order.
- Ensure Air Cap Ring (2) is fully tightened and Fluid Tip (5) is pushed into place so that the spray gun Needle (7) will shut off.

**Tip:** Ensure Spray Direction Plate (4) is free to move. If necessary loosen Air Cap Ring (2) slightly.

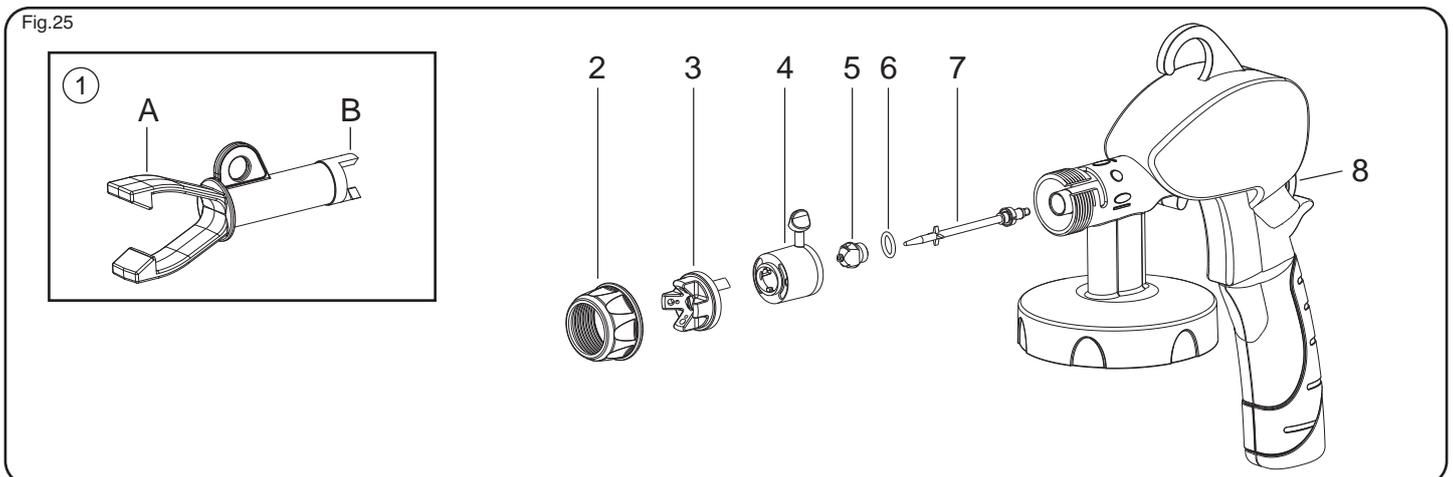
**REPEAT THE SAME PROCESS ABOVE TO CLEAN THE FLUID TIP & NEEDLE.  
NEVER LEAVE COMPONENTS SOAKING IN WHITE SPIRITS FOR LONG PERIODS.**

**DO NOT DISMANTLE THE SPRAY GUN BY UNDOING THE SCREWS.**

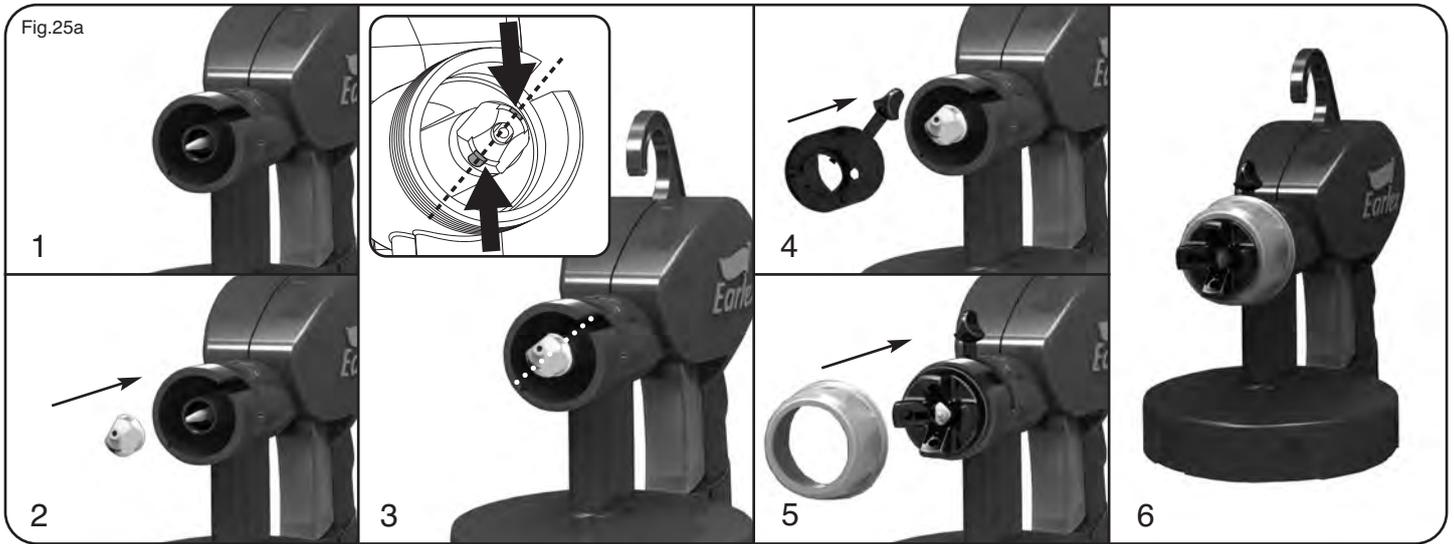
**When removing the needle and fluid tip DO NOT remove the lip seal from the needle assembly.**

**HINT:** Before removing or re-inserting the needle and fluid tip ensure the spray gun has been flushed through with water or the appropriate thinners so the inner tube is clean.

**HINT:** The cleaning operation on the spray gun can take less than 5 minutes. If taking a break, leave the spray gun in a plastic bag to prevent the paint from drying.

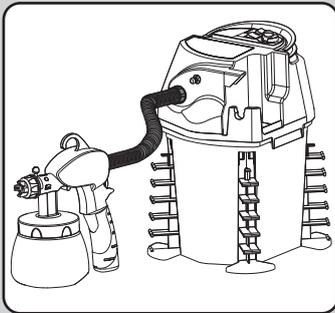


Close-up view showing alignment of Fluid Tip (item 5, Fig.25)



## Small Projects - from the Paint Pot

**(Water & solvent-based coatings may be used with this set-up.)**



(Priming not required)

- 1) Uncoil the black Air Hose (15) from around the Gemini Bucket (25) and put it to one side.
- 2) Fit the Rigid Pick-Up Tube (11) (Fig.8) and Paint Pot (12) to gun (for first time use, the gun already comes supplied like this).
- 3) Then fit the black Air Hose (15) to the head unit and gun using a TWIST motion.

## Spraying - from the Paint Pot



**Tip: Before starting your project, practice spraying onto waste cardboard.**

1. Fill the Paint Pot (12) with your coating material – and check dilution. DO NOT FILL above the start of the threaded neck.
2. Push the Rigid Pick-Up Tube (11) firmly into the base of the spray gun body. Screw the Paint Pot (12) onto the spray gun body tightly.
3. Set Paint Flow Adjuster (8) to lowest setting.
4. Uncoil the Air Hose (15) and attach it to the back of the spray gun and the other end to the SprayStation Gemini®. Uncoil the power cord and plug in to the electrical socket-outlet.
5. Turn the turbine on. 
6. Fine tune spray output with Paint Flow Adjuster (8) on gun. ¼ to ¾ setting produces the best spray.
7. An airtight seal is essential for the correct operation of this spray gun. Before operating the unit please ensure that the Paint Container Gasket (9) is in place and the Paint Pot (12) is securely fixed to the spray gun body.

**Tip:** If you are spraying a ceiling angle the Rigid Pick-Up Tube (11) to the rear of the Paint Pot (12) or if you are spraying a floor surface angle to the front. This will ensure you spray as much material as possible before you need to refill the Paint Pot (12).

As some paints, wood preservatives and other sprayable materials contain particles that have differing qualities, or you may be using an old paint, we recommend you filter your material when filling the Paint Pot (12) of the spray gun or backpack through either a funnel with a filter on it or through hosiery. This will ensure that no large particles enter the Paint Pot (12), so preventing blockages and providing you with trouble-free spraying.

**ALWAYS MAKE SURE THAT THE PRODUCT IS ON A STABLE AND LEVEL SURFACE AND FREE FROM DUST AND DEBRIS OR LIQUIDS.**  
**ALWAYS KEEP THE PRODUCT AS FAR AWAY FROM THE SPRAYING AREA AS POSSIBLE TO PREVENT PAINT CONTAMINATING THE MOTOR. MASK ANY AREA YOU DO NOT WISH TO SPRAY.**

# Cleaning Instructions - Spraying from the Paint Pot



- Disconnect Air Hose (15) from spray gun.
- Remove Paint Pot (12).
- Pour any leftover paint into its container so that it can be used in the future. Pull the trigger to allow paint to run out of the Rigid Pick-Up Tube (11).
- Connect Air Hose (15) to the spray gun.
- Pour a quantity of the respective thinners into the Paint Pot (12), reassemble the spray gun, then spray this liquid through the spray gun. Repeat this until the thinners being sprayed is coming through with no traces of paint.
- Clean any traces of paint off the outside of the spray gun.
- Clean Paint Container Gasket (9).

## Cleaning Instructions - Spray Gun (Fig. 25)

- Unscrew Air Cap Ring (2).
- Remove Air Cap (3).
- Remove Spray Direction Plate (4).
- Using Needle and Fluid Tip Tool - pincer end A (1) remove Fluid Tip (5).
- Insert Needle and Fluid Tip end B (1) into the inner tube and unscrew Needle (7) anticlockwise, then pull to release the needle.
- Place all of these items into a container and clean using a brush and the respective thinners.
- Clean the inside of the body of the spray gun.
- Thoroughly dry all parts before reassembling.
- Reassemble parts in reverse order.
- Ensure Air Cap Ring (2) is fully tightened and Fluid Tip (5) is pushed into place so that the spray gun Needle (7) will shut off.

**Tips:** Ensure Spray Direction Plate (4) is free to move. If necessary loosen Air Cap Ring (2) slightly.

**NEVER DISPOSE OF PAINTS OR SOLVENTS DOWN THE DRAIN. ALWAYS USE YOUR LOCAL WASTE COLLECTION SITE.**

**REPEAT THE SAME PROCESS ABOVE TO CLEAN THE FLUID TIP & NEEDLE.**

**DO NOT DISMANTLE THE SPRAY GUN BY UNDOING THE SCREWS.**

**When removing the needle and fluid tip DO NOT remove the lip seal from the needle assembly.**

**HINT:** Before removing or re-inserting the needle and fluid tip ensure the spray gun has been flushed through with water or the appropriate thinners so the inner tube is clean.

**HINT:** Cleaning the spray gun can take less than 5 minutes. If taking a break, leave the spray gun in a plastic bag to prevent the paint from drying.

## Motor Housing Unit

The turbine unit only requires minimal maintenance.

- Ensure its Air Filter element (21) is kept clean at all times.

This can be washed out if necessary and refitted when dry. From time to time this air filter will need replacing, please order Part No. FF0018.

## After Use

- The Air Hose (15) is stored by coiling it around the Gemini Bucket (25).

Place the gun into the Docking Station (19) on the top of the turbine near the handle at the storage adaptor.

## Fluid Tips and Needles

**(applies to spraying with the Paint Pot only)**

The fluid tip and needle that is supplied with your spray gun is ideal for most applications, however if you want to use your SprayStation Gemini® to achieve a finer finish when spraying a material such as polyurethane, varnish or lacquer we recommend you invest in a fine finish tip and needle (see the Needle chart below). Tips and needles may be obtained from the dealer where you purchased your SprayStation Gemini® from, if not call our toll free number 888-944-HVLP to purchase these directly.

# Needle Selection Guidelines

Note: To use the 1mm and 1.5mm needles you will need to include the Standard V-gun Air Cap and Spray Pattern Adjuster.

Needle/ Fluid tip size	Material sprayed
Tip HVACGEM10 - 1.0mm (0.04") ultra fine finish tip and needle kit	Acrylics, Synthetics, Polyurethane, Thinners, Lacquers, Oil-Based Stains
Tip HVACGEM15 - 1.5mm (0.06") fine finish tip and needle kit	Acrylics, Synthetics, Polyurethane, Thinners, Lacquers, Oil-Based Stains

## Changing the Tip and Needle

ENSURE YOU REPLACE THE MATCHING FLUID TIP (Fig.25-5), NEEDLE (Fig.25-7), AIR CAP (Fig.25-3) AND SPRAY DIRECTION PLATE (Fig.25-4).

- Unscrew Air Cap Ring (2).
- Remove Air Cap (3).
- Remove Spray Direction Plate (4).
- It is recommended to push the trigger forward to help release Fluid Tip (5).
- Using Needle and Fluid Tip Tool - pincher end A (1) remove Fluid Tip (5).
- Insert Needle and Fluid Tip end B (1) into the inner tube and unscrew the needle anticlockwise, then pull to release the needle.
- Insert the optional needle and screw into place.
- Insert the corresponding fluid tip and push into place.
- Reassemble all other parts in reverse order.
- Ensure Air Cap Ring (2) is fully tightened and Fluid Tip (5) is pushed into place so that the spray gun Needle (7) will shut off. Make sure the Spray Direction Plate (4) is free to move. If necessary loosen Air Cap Ring (2) slightly.

## Troubleshooting & FAQ's - Direct from the can or from the Paint Pot



PROBLEM	CAUSE	ACTION REQUIRED
The paint splatters	Paint viscosity too thick	Thin as required using appropriate thinners (see thinning instructions)
	An area inside the spray gun has a degree of blockage	Clean gun and filter paint in the container
	Gun wasn't correctly cleaned from previous project	Clean gun
The paint drips or sags on surface	Paint viscosity is low/thin	Add undiluted paint
	Paint output too high	Reduce the paint output by scrolling Paint Flow Adjuster (8) downwards
	Moving too slowly	Increase speed of application
	Spray trigger held too long	Release trigger sooner
	Spray gun too close	Increase the distance between the spray gun and the work-piece
There is too much overspray or fogging in the room	Paint flow too high and spraying too close to the work-piece	Reduce paint flow and move further from the work-piece
No paint being released	Paint too thick	Add thinners
	Fluid tip blocked	Clean Fluid Tip (5)
	Pick-up tube blocked or missing	Clean the gun and the Rigid Pick-Up Tube (11) or insert Rigid Pick-Up Tube (11)
	Air hose split	Replace Air Hose (15)
	Grainy paint	Filter the paint
	Paint container almost empty	Refill Paint Pot (12)
	Spray gun at an angle	Check that the Rigid Pick-Up Tube (11) is pointing towards the paint
	Air inlet blocked	Check the condition of the Air Filter (21) and clean or replace as necessary

**Q1. When should the air hose be disconnected?**

A1. Always have the Air Hose (15) disconnected during the cleaning process.

**Q2. What you should do before disconnecting the paint tube.**

A2. Prior to removing the Paint Tube (13) from the unit release pressure in the tubing by squeezing the trigger slowly into the Gemini Bucket (25).

**Q3. How do I fit the gun into the docking station?**

A3. Before replacing the gun in the Docking Station (19) set Paint Flow Adjuster (8) to maximum by scrolling fully upwards.

**Q4. Why is the paint spray spluttering?**

A4. If the paint spray splutters air has entered the system. Ensure the Pick-Up Tube (18b) is in the fluid and the Filter Cage (18c) is submerged (paint level may need topping up). Once topped up replace gun in Docking Station (19) and allow to circulate for 2 minutes. This will remove air from the system.

**Q5. What happens if I pull the trigger with the pump on?**

A5. If the paint is primed in the tube with the pump on and the trigger is depressed, you will need to release the trigger and take a damp rag to the nozzle and clean off any excess paint. Then turn the turbine on whilst holding a rag over the end to catch any excess paint from the air horn holes. For a more thorough clean set the Spray Direction Plate (4) to horizontal or vertical pattern to lock the Fluid Tip (5) in place. Then you can remove the Air Cap Ring (2) and Air Cap (3) for a more thorough clean in a sink /under a tap. (This also stands for any additional clean-up during use). If the flow of paint is slow turn paint speed dial clockwise. If it is still too slow the paint may require dilution or the Pick-Up Tube (18b) may be kinked.

**Q6. What do I do if the atomization/ quality of spray is poor?**

A6. If the paint atomization is poor try turning paint speed dial anticlockwise and scroll Paint Flow Adjuster (8) downwards. Otherwise the paint dilution may require adjustment.

**Q7. What do I do if the spray is sparse?**

A7. If the paint spray is sparse, turn paint speed dial (Fig.23) clockwise and scroll Paint Flow Adjuster (8) upwards. Otherwise paint may require dilution.

**Q8. How do I stop the paint drying out if I pause the project for 15-90 minutes?**

A8. If pausing a project for a short while (15-90mins) put half a cup of water on top of the paint in the container to prevent it from forming a skin.

**Q9. How do I achieve a fine spray?**

A9. By scrolling Paint Flow Adjuster (8) downwards and moving closer to the target a thinner pattern can be achieved. Great for edge detail or finishing off next to masking tape.

**Q10. What do I do when the tip of my gun clogs with paint?**

A10. While spraying, the Fluid Tip (5) can become clogged with dried paint. Keep a damp cloth handy during your project to occasionally wipe this dried paint away.

**Q11. What do I do if the spray direction plate is not working?**

A11. If the Spray Direction Plate (4) is not changing the spray pattern as expected, remove Air Cap (3) and ensure that the lugs on the Spray Direction Plate (4) are located in the grooves on the Fluid Tip (5).

**Q12. What do I do if my gun continues to spray after the trigger is released?**

A12. If the gun continues spraying after the trigger is released, first ensure Air Cap Ring (2) is fitted tightly. If this does not solve the issue, thoroughly clean the gun ensuring the Needle (7) and Fluid Tip (5) are free of all dried paint.

**Questions?** Call toll free: 888-783-2612



**Earlex Inc**  
**8261 Highway 73, Suite F,**  
**Stanley, N.C. 28164, USA**  
**Toll Free 888-783-2612**

**Email:** [questions@earlex.com](mailto:questions@earlex.com) **Website:** [www.earlex.com](http://www.earlex.com)

# Electrical Connection

In a double-insulated appliance, two systems of insulation are provided instead of grounding. No grounding means it is a double-insulated appliance and a means for grounding shall not be added to the appliance. Servicing a double-insulated appliance requires extreme care and knowledge of the system, and should be done only by qualified service personnel. Replacement parts for a double-insulated appliance must be identical to the parts they replace. This double-insulated appliance is marked with the DOUBLE-INSULATED symbol (square within a square).



**PLEASE NOTE:** We have done all we can to ensure that if used correctly and according to these instructions, this SprayStation will have a long and trouble-free life. We accept no responsibility for damage caused by the use of incorrect or unsuitable substances, paints or fluids which have not been thinned correctly or are unsuitable for the surfaces to which they are applied, health hazards arising from lack of ventilation when working in confined spaces or failure of the equipment due to inadequate cleaning of the components after use. If in doubt, always test a small inconspicuous area first. Always read the paint manufacturer's instructions first. Neither our guarantee nor the above statement affects your statutory rights.

## INFORMATION ON THE DISPOSAL OF WASTE ELECTRICAL AND ELECTRONIC EQUIPMENT KNOWN AS WEEE

Your attention is brought to new directives applicable to the disposal of this electrical equipment, where in accordance with current legislation, this product must not be disposed of in your normal household waste. Instead it is your responsibility to dispose of this type of waste by handing it over to special designated collection points for recovery and recycling. This product is marked with a 'Wheellie bin' symbol with a cross on it to remind you of this action. The objective of this directive is to help conserve resources and ensure that it is recycled in a manner that protects human health and the environment. For more information about where you can drop off your waste please contact your local authority, take back facilities are free of charge.



### Design Registrations and Patents:

#### **Spray Gun Design Registration**

ECD 001096218-0001  
US D609,778S  
CN 200930004457.X

#### **Spray Gun Patent**

GB 0903275.6  
GB 2468196  
GB 2469587  
US 8,308,083  
CN Applied for

#### **Spray Gun Patent Pending**

GB 1110336.3  
GB 1115249.3  
FR 2942414  
FR 12 55381  
DE 10 2010 000 536.3  
DE 10 2012 104 771.5  
US 13/470,433

#### **HVLP Turbine Design Registration**

ECD 001299515  
US Applied for  
CN Applied for

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### **WARRANTY**

This product is guaranteed for a period of 12 months against faulty manufacture and materials. It is not guaranteed for industrial or rental purpose or for use with heavily textured paint.

Defects caused by normal wear & tear, unauthorised use/ improper maintenance/ handling or overload are excluded from this warranty. The warranty expires if the Gemini head unit has been opened up by persons other than Earlex service personnel.

Wearing parts are also excluded from the warranty (pump head (peristaltic pump), pick-up tube and filter cage, filter (foam), needle & fluid tip, spray direction plate, spray gun gasket, air cap & paint tube), as are the following accessories; paint stirrer, faucet connector, connection plate, hose clips & bottle brush. This warranty does not affect your statutory rights. Earlex Inc will accept no responsibility for the use of this product if used for any purposes other than those detailed herein.